

DIELECTRIC RESONATOR OSCILLATOR

Model 516114

10 GHz to 11 GHz

Features

- Low Noise
- Rugged Construction for Extreme Environmental Conditions
- High Frequency Stability
- Mechanically Tuned

Specifications

CHARACTERISTIC	TYPICAL	MIN/MAX
	Ta = +25 °C	Ta = -55°C to +85 °C
Frequency	10 - 11 GHz	10 - 11 GHz
Output Power (dBm)	+13.0	+10.0 Min.
Power Flatness (dBm)	+/- 1.5	+/- 3.0
Frequency Stability (ppm)/ °C	4	3 to 5
Harmonics (dBc)	-20	-15 Max.
Spurious (dBc)	-80	-80 Max.
Phase Noise (10 GHz) @ 100 KHz (dBc/Hz)	-122	-120 Max.
Load VSWR	1.5:1	2.0:1 Max.
Power	Vdc	+15
	m A	70
		+15 to +20 90 Max.

Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature-55°C to +100 °C
Storage Temperature-62°C to +125 °C
Case Temperature+125 °C
DC Voltage+24 Volts
Maximum DC Tuning Voltage+20 Volts
Minimum DC Tuning Voltage0 Volts

NOTE: Care should always be taken to effectively ground the case of each unit.

Typical Performance Data

Phase Noise	Typical	Typical
Offset	10 GHz	11 GHz
1 kHz	-75	-72
10 kHz	-101	-99
100 kHz	-122	-121

